

TS-323/UR/FREQUENCY METER



TS-323/UR FREQUENCY METER AND CRYSTAL CALIBRATOR, 20 TO 480 MC. PORTABLE SELF-CONTAINED CRYSTAL CONTROLLED HETERODYNE TYPE USED FOR TESTING CW, MCW AND PULSED SIGNALS.

FUNDAMENTAL FREQ. RANGE 20 TO 40 MC. ACCURACY .005%, AUDIO 20 MW AT CHECK PTS. RADIO FREQ. OUTPUT 50-1000 MV. SENSITIVITY 50M MV SIG. GIVES AUDIO BEAT NOTE OUTPUT OF 10 MW. RANGE

2500 TO 500 MV. POWER REQUIRED 2 DRY BATTERIES BA-203 (6 VDC) AND 3 BA-59 (45 VDC). SIZE: 15x12x10 WT: 35 LBS. PRICE: USED SERVICEABLE \$60.00 CHECKED \$75.00 115 VOLT 60 CYCLE POWER SUPPLY \$24.95

TS-382 AUDIO OSCILLATOR



TS-382 AUDIO OSCILLATOR FREQUENCY RANGE 20 TO 200,000 CPS IN FOUR BANDS, OUTPUT IMP. 1000 OHMS, AMPLITUDES CONTINUOUSLY VARIABLE 0-10 VOLTS, FREQ. RESPONSE 20 CPS. TO 150,000 CPS. APPROX. 2

1 DB, FREQ. ACCURACY $\pm 6\%$, STABILITY $\pm 2\%$, HUM 60 DB BELOW RATED OUTPUT, ATTENUATOR ACCURACY 3% EXCEPT 10 MICRO. V. ± 2 OR ± 3 MICROVOLTS. POWER INPUT 115 V. 50-1600 CYC. OUTPUT 100 MW. WITH NINE TUBES, CALIBRATED TUNING DIAL, FREQ. RANGE SWITCH, OUTPUT LEVEL CONT. OUTPUT LEVEL ATTENUATOR, SIGNAL INPUT AND OUTPUT JACK, OUTPUT LEVEL METER, VIBRATING REED-TYPE METER USED AS A ACCURATE CHECK OF THE OSC. CALIBRATION SIZE: 18x10x12; WT: SHPG. 75 LBS. PRICE: USED SERVICEABLE \$75.00 CHECKED \$85.00

FR-6/U FREQUENCY METER



FR-6/U FREQUENCY METER 100 TO 500 MC, HETERODYNE TYPE COMPRISING VARIABLE-TUNED INTERPOLATION OSC. ADDED TO A FIXED HARMONIC CRYSTAL OSCILLATOR. THIS METHOD ELIMINATES UNDESIRABLE HARMONICS. AN LC TYPE AUDIO-MODULATOR MODULATES THE FILTERED AND AMPLIFIER IF SIGNAL AND THE AUDIO IS FEED TO THE HEADPHONE JACKS.

TYPE RECEPTION CW, FUND. FREQ RANGE 4.166-4.34 STANDARD FREQ. AVAILABLE 4.0 MC. STABILITY 0.0001%, ACCURACY .001%, WITH CALIBRATING SCALE. USES BCN CONNECTORS. POWER REQUIRED 115/230 VOLT 50 TO 1000 CYCLES. SIZE: 12x19x15; WT: 60 LBS. PRICE, USED SERVICEABLE \$80.00 CHECKED \$100

CONVERTER

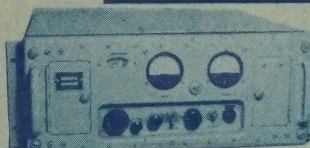
228-258 MC TO 118-148 MC



CV-431/AR CONVERTER THIS TRANSVERTER IS A COMBINED TRANSMITTER AND RECEIVER CONVERTER. THE TRANSMITTER PORTION FUNCTIONS AS A INDEPENDENT TRANSMITTER ON A FREQUENCY RANGE OF 228 TO 258 MC; IT DOES NOT REQUIRE THE USE OF ANY

VHF COMPONENT FOR TRANSMISSION. THE CONVERTER SECTION CONVERTS RECEIVED SIGNALS IN THE RANGE OF 228-258 MC TO 118-148 MC AFTER MIXING WITH A 110 MC CRYSTAL OSCILLATOR AND REQUIRES THE USE OF A VHF RECEIVER FOR RECEPTION. HIGH VOLTAGE FOR THE TRANSVERTER IS SUPPLIED BY THE DYNAMOTOR WHICH IS MOUNTED ON THE RECEIVER AND HAS A OUTPUT OF 250 VDC 60 MA. THE TRANSMITTER IS 8 CHANNEL CRYSTAL CONTROLLED, VOICE AM CIRCUIT DESIGNED FOR AIRCRAFT TO GROUND COMMUNICATION AND USES 4/5763, 1/6201 AND 1/5763 TUBES. POWER OUTPUT 0.5 WATT AT AN ALTITUDE OF 5000 FT. WITH A RANGE OF APPROX. 60 AIR MILES. THE CONVERTER SECTION USES 1/6201 TUBE AND MIXES THE INCOMING SIGNAL WITH THE 110 MC. OSC. AND CONVERTED TO 118-148 MC SIGNAL WHICH CAN BE PICKED UP BY ANY RECEIVER IN THE BAND. SIZE: 5x11x4; WT: 9 LBS. PRICE: USED SERVICEABLE WITH TUBES \$7.95

UHF RECEIVER



URR-35 RECEIVER 225 TO 400 MC CONTINUOUS TUNING ONE BAND, AM, VOICE, MC, MCW, CRYSTAL CONTROL OSC. DOUBLE SUPERHET. IF. FREQ. 18.6; 1.775 MC. AUDIO OUTPUT 600 OHM, ONE CRYSTAL CONT. CHANNEL. POWER REQ. 115V 50/60 CYC. RACK MTG. 19"x8x17; WT: SHPG. 65 LBS. PRICE: USED SERVICEABLE \$75.00 CHECKED \$85.00

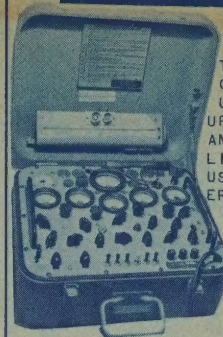
BROADCAST RECEIVER



R-22 RECEIVER 550 TO 1500 KC AM, ONE BAND CONTINUOUS TUNING, NO DIAL (SEE BELOW FOR CONTROL BOX) WITH TUBES 2/14 A7, 1/14S7, 1/14R7, 1/14F7 AND 1/12A6. VOLTAGES REQUIRED 250-290 VDC @ 50-90MA. AND 24 VOLTS. SIZE: 6x5x11; WT: 10 LBS. PRICE: NEW \$22.50

CONTROL BOX FOR RECEIVER WITH ADAPTER THAT CAN BE USED ON ANY RECEIVER OF THIS TYPE. SCALE WILL HAVE TO BE CHANGED C-26 CONT. BOX W/ADAPTER \$4.

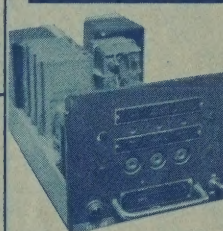
TV-2/U TUBE CHECKER



TV-2/U ELECTRON TUBE TEST SET IS A PORTABLE TUBE TESTER OF THE DYNAMIC MUTUAL CONDUCTANCE TYPE. IT IS USED TO TEST AND TO MEASURE PERFORMANCE CAPACITIES AND TO DETERMINE REJECTION LIMITS FOR ELECTRON TUBES USED IN RECEIVERS, LOW POWERED TRANSMITTERS AND OTHER ELECTRONIC EQUIPMENT.

THE FOLLOWING TEST CAN BE MADE: SHORTS, INTER-ELEMENT, FILAMENT CONTINUITY, DYNAMIC MUTUAL CONDUCTANCE FOR AMPLIFIER TUBES, GAS TEST FOR AMP., EMISSION TEST FOR RECT., ALSO FOR GAS, PLATE CURRENT FOR TRIODES ALSO VOLTAGE REGULATOR, THYRATRON, BALLAST AND ELECTRON-RAY INDICATOR TUBES. METERS FOR READING, TRANSCONDUCTANCE (QUALITY), AC FILAMENT VOLTS, GRID-BIAS-VOLTS, PLATE, SCREEN VOLTS, AND SIGNAL METERS. TUBE TEST SOCKETS FOR STANDARD TUBES FOUR, FIVE, OCTAL, LOCTAL, 7, SIX, SEVEN-PIN MINIATURE, SUB-MIN EIGHT LONG LEAD, SUB-MIN SEVEN AND EIGHT PIN, ACORN, NOVAL AND TRANSMITTING SEVEN PIN. A SELECTIVE SWITCHING ARRANGEMENT IS PROVIDED ON THE PANEL SO THAT ANY TUBE TESTED WILL HAVE ITS PROPER ELECTRODE VOLTAGE PROVIDED. A ROLL CHART SHOWING THE SETTING FOR ALL 4, 5, 6 AND 7 CONTACT FOR SMALL AND LARGE PRONG, 7 CONT. MIN., 8 CONT. OCTAL & LOCK-IN, 9 CONT. MIN 8 CONT. CIRCULAR PIN. SUB-MIN. 7 CONT. IN-LINE MIN, 8 CONT. LONG LEAD SUB-MIN. ADAPTER ROLL TYPE CHART FOR TUBE TEST DATA. USED FOR DEPOT SERVICE WORK. POWER REQ. 103 TO 126 VOLTS 50 TO 1600 CYCLE. SIZE: 17x16x8; WT: ACTUAL 37 LBS. SHPG. 45 LB PRICE: USED SERVICEABLE \$55.00 CHECKED \$65.00

AM-447 AUDIO AMPLIFIER



AM-447 AUDIO FREQUENCY AMPLIFIER, VOLUME LIMITING TYPE, INSURES UNIFORM OUTPUT UNDER CONDITIONS WHERE THE RECEIVED SIGNAL LEVEL MAY VARY IN AMPLITUDE, ELIMINATING THE NEED FOR CONSTANTLY READJUSTING THE OUTPUT LEVEL. IT IS INTENDED TO BE USED RECEIVING EQUIPMENT, LINE AMPLIFIER OR AMPLIFY THE OUTPUT OF A MICROPHONE FOR MODULATING TRANSMITTING EQUIPMENT. INPUT IMPEDANCE 600 OHMS, OUTPUT IMPEDANCE 200 AND 600 OHMS, AUDIO INPUT: -10 DBM TO -10 DBM, FREQ. RESPONSE FLAT WITHIN 2 DB FROM 300 TO 3500 CPS.. GAIN: 34.8 DBM MAX. AUDIO OUTPUT 3 WATT HAS INPUT, OUTPUT AND PHONE JACKS ALSO VOLUME CONTROLS. WITH TUBES

POWER REQUIRED 115 VOLT 50/60 CYCLE. SIZE: 7x12x14; (NO COVER WITH UNIT) WT: 23 LBS PRICES: USED SERVICEABLE \$8.95 TWO FOR \$15.00

Fair Radio Sales Co.

1016 E. EUREKA ST.

P. O. BOX 1105

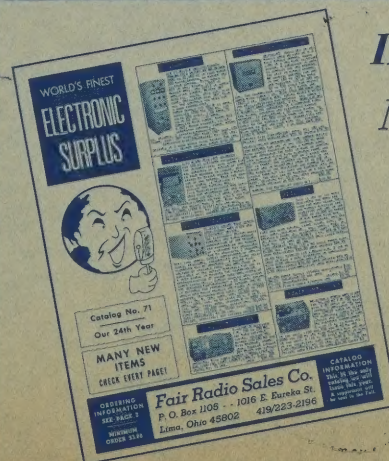
Lima, Ohio 45802

PHONE: 419 / 223-2196

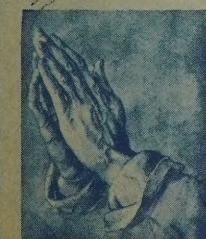
RETURN POSTAGE
GUARANTEED

Bulk Rate
U. S. POSTAGE
PAID
Lima, Ohio
Permit No. 74

SUPPLEMENT To CATALOG No. 71



**IF YOU DO
NOT HAVE
CATALOG
NO. 71
SEND
FOR IT
TODAY!**



**GOD IS JUST
A PRAYER AWAY**

CODE PRACTICE SET TAPES

TG-34 KEYS: CODE PRACTICE SET USED TO REPRODUCE SIGNALS PREVIOUSLY RECORDED ON INKED PAPER TAPE, VARIABLE SPEED MOTOR, KEYING OSCILLATOR WITH SPEAKER & PHONE JACK. POWER REQUIRED 115 V. 50/60 CYC. IN PORTABLE CARRYING CASE 15x10x10; WT: 40 LBS. PRICE: USED SERVICEABLE \$24.95 CHECKED \$29.50

THERE ARE 15 TAPES TO A COMPLETE SET \$2.00 EA
#1 TO 4 COVER DIFFERENT #9 12WPM CODED/GR
GROUPS WIDE SPACE LETTERS #10 12WPM TACT/MESS
#5 WIDE SPACE NUMBERS & #11 12 " " "
LETTERS #12 15 " " "
#6 5WPM NUMBERS & LETTERS #13 15 " " "
#7 7WPM " " " #14 20 " " "
#8 10 " CODED GROUPS OF 5 #15 20 " " "

EQUIPMENT CABINETS

STANDARD 19" PANEL MOUNTING WITH SHELVES AND DRAWER, THAT CAN BE REMOVED. (SHOWN TO THE RIGHT) 22"x80"x25"d; WT: 150 LBS. WEST-#7701 USED GOOD COND. \$45.00

FGC-29 EQUIPMENT CABINET WITH REAR DOOR AND 115 VOLT 60 CYCLE BLOWER SQUARE CORNERS, SO THEY CAN BE GANGED. 22"x75"x24"d; WT: 175 LBS. USED \$40

EQUIPMENT CABINET WITH REAR DOOR AND HINGED TOP COVER, SIZE 22"x37"x15"d. WT: 80 LBS. #WEST:2237 PRICE: USED \$20.00

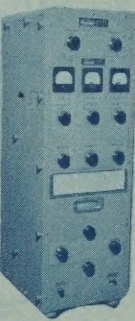
COUNTER TOP EQUIPMENT CABINETS, HINGED COVER TOPS FOR STANDARD PANELS 19x10; 30LB USED \$10.

OTHER TYPES AVAILABLE: TELL US WHAT YOU NEED



CY-1334/G ACCESSORY CASE THE OUTER FRAME IS FOR RACK MOUNTING AND THE DRAWER SLIDES INTO THE FRAME AND WAS FULL GLIDE SUSPENSION ALSO BRACKET WITH 7 & 9 PIN TUBE PULLERS AND PIN STRAIGHTENERS CASE SIZE 19x12x20, DRAWER SIZE 15x10x10; WT: 18 LBS. (ALUMINUM) EX-COND. \$8.95

TRANSMITTER



RCA ET-8019-A RADIOTELEGRAPH TRANSMITTER SRT-4A AM-CW-MCW 2000 TO 22,140 KC IN FOUR BANDS, 200 WATTS, CRYSTAL OR MASTER OSCILLATOR CONTROL. WITH TUBES 1/807 OSC. STAGE, 1/807 BUFFER AMP. AND 2/813 IN POWER AMPLIFIER. METERS (3 1/2") READ FIL. VOLTS, GRID CURR. PLATE CURR. LARGE 3 1/2" OSCILLATOR TUNING DIAL, PLUS ALL THE CONTROLS YOU NEED FOR A GOOD TRANSMITTER. POWER REQUIRED 1200 VOLTS DC @ 500 MA. PLUS VOLTAGES REQ. FOR TUBE FILAMENTS. TRANSMITTER SIZE WITH SHOCK MTG. 39" HIGH X14 1/2" WIDE X 19 1/2" DEEP. ACTUAL WEIGHT 135 LBS. SHPG 334LB PRICE: RE-NEW ORIG. BOX \$89.50 " MANUAL 8.50



C-1192/SRT-4A CONTROL UNIT FOR 115 VDC GENERATOR. CONTAINS 3 INCH SQUARE METER 1.5 KILOVOLT D.C. SCALE. DUAL RHEOSTAT 150 WATT EACH, 378 OHMS AND 585 OHMS, HEAVY DUTY START-STOP SWITCH, 3/4 AMP. 3000 VOLT FUSE AND 12 POSITION TERMINAL STRIP IN A METAL BOX HINGED SIZE 10x12x6 1/2; WT: 10 LBS. NEW \$10.00

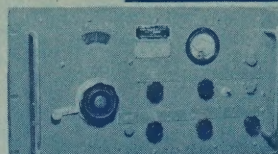


SA-306/SRT-3A STARTER-MOTOR GE-MAGNETIC CONTROLLER DC 415-V CR 4052-Y1, CAT#6934846G11 WITH THERMAL HEATER CUTOFF, 81D254, 11.1-11.8 AMPS. NEW SIZE: 7x9x7; WT: 12 LBS. \$9.95



F-198/SRT-3A ELECTRICAL NOISE SUPPRESSOR WITH 2x22 OHMITE RF CHOKES, 20 AMPS, 2-5 1000 V CAP. OIL AND 2-.01 2500 V MICR CAPACITORS. SIZE: 9x6x3 1/2; 5LBS. NEW \$4.95

VHF RECEIVER



BC-639 RECEIVER AM 100 TO 156 MC CONTINUOUS TUNING OVER THE ENTIRE RANGE. CONTROLS FOR CW, TONE, AVC-MANUAL, R.F., AUDIO GAIN, ATTENUATION, SENSITIVITY ETC. TUNING METER, PHONE JACKS ETC. WITH TUBES 1/6SC7, 1/6K6, 4/6SG7, 1/9002 & 3/9003.

SEPARATE RA-42 POWER SUPPLY THAT SUPPLIES ALL THE REQUIRED VOLTAGES AND OPERATES FROM 115/230 VOLT 60 CYC. BOTH UNITS ARE DESIGNED FOR 19" RACK MOUNTING. REC. 10 1/2" HIGH, P.S. 7" H. SHPG. WT: 75 LBS.

PRICE: USED SERVICEABLE \$60.00 CHECKED \$75.00

U.H.F. RECEIVER



R-278 RECEIVER 225-399.9 MC, AM, CRYSTAL FREQ. CONTROL 1750 CHANNELS 0.1 MC INTERVALS, 10 PRESET CHANNELS, AUDIO FREQ. RESPONSE WIDE 200 TO 20,000 CYCLES NARROW 200 TO 5000 CYCLES AVC, SQUELCH, AIR COOLED, POWER REQ. 115/230 V. 50-

60 CYCLE. UNITIZED CHASSIS, RACK MTG. SIZE: 19x12 1/2x20; WT: 115 LBS. USED SERVICEABLE PRICE: R-278 WITH 238 TO 248 GUARD CHANNEL 44 TUBES \$175.00

R-278B NO GUARD CHAN. 30 TUBES 150.00

CONTROL MONITOR



C-1151/TC CONTROL MONITOR WITH SUB-CYCLE RINGER WITH TELEPHONE HANDSET. USED WITH TCC-13 MULTIPLEXER, AUDIO FREQ. INPUT 1000 CY SINE-WAVE, AURAL MONITORING.

SUB-CYCLE PUTS OUT 75 -- 110 VOLT 7.5 WATTS, 16-2/3 AND 20 CYCLE FOR LINE RINGING. POWER REQ. FOR OPERATION OF UNIT AND TELEPHONE SYSTEM 115 V. 50/60 CYCLE. PUSH BUTTON SWITCHES FOR REC-SEND-TEL-MANUAL OPERATION. TWO OR MORE UNITS CAN BE USED TOGETHER FOR SINGLE CIRCUIT TELEPHONE OPERATION RACK MTG. 19x10 1/2x23 1/2; WT: 60 LBS. PRICE: USED SERVICEABLE EXCELLENT \$35.00

TELEPHONE MODEM

MD-179/TC TELEPHONE, MODEM:

1 CKT. OF 1 VOICE CHANNEL 300 TO 3500 CYC FREQ RANGE, 8 KC PTM LUSE TRAIN, 1 MICROSEC. PULSE WD. 1/2 MICROSEC. DEVIATION FOR TRANS. 300 TO 3500 CYC FREQ. RANGE, 192 KC PTM PULSE TRAIN 1 MICROSEC. PULSE WD. 1/2 MICROSEC. DEVIATION FOR REC. 2 OR WIRE OPER. WITH TUBES 12AT7 AUDIO AMPL & PPM MOD. 12AT7 GATE GEN. PWM CONV. 12AT7 CLIPPER AMP. AUDIO AMPL. 12AT7 CLIPPER SHAPER & MIXER, 12AT7 D-C AMPL. & RINGING RELAY CONTROL. VOLTAGE REQUIRED 250 VDC AND 6.3 V. WITH 4 POS. TEST SW.; AUDIO GAIN AND DELAY PULSE POS. CONT. AND PWM AND PPM TEST JACKS. ALSO 18 CONTACT CENTIFAL CHASSIS CONN. AND MATCHING PLUG. P/O TCC-13 MULTIPLEXER SYSTEM SIZE: 8x2 1/2x16; WT: 10 LB. EX-COND. \$4.95

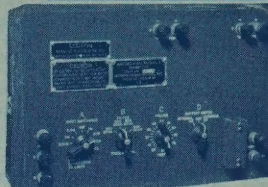
RANGE RADAR INDICATOR



ID-169/APN-12 INDICATOR OSCILLOSCOPE; USED TO DETERMINE RANGE OF RADAR NAVIGATIONAL BEACON EQUIPMENT WHEN USED WITH RADAR REC-TRANS UNITS FOR WHICH IT WAS DESIGNED. HAS VERTICAL, FOCUS, SWEEP, INTENSITY CONTROLS ON FRONT PANEL.

MOTORIZED COAXIAL SWITCHING UNIT FOR ANTENNAS WITH TUBES 1/3BP1, 2/6H6, 2/6SN7, 1/6G6, 1/6X5, 1/2X2. POWER REQUIRED 115 VOLT 400 CYCLE AND 24 VOLTS DC. (TRANSFORMER OUTPUT VOLTAGE APPROX. 425 VOLTS.) SCHEMATIC ONLY \$1 SIZE: 10x8x22; WT: 30 LBS. Gov't RE-COND \$14.95

WIRE TAPPING DEVICE



AN/PTA-1 MONITOR AUDIO FREQUENCY WIRE TAPPING DEVICE USED TO INTERCEPT COMMUNICATION SIGNALS SENT OVER TELEPHONE LINES BY THE DIRECT CONNECTION, INDUCTION PICK-UP, GROUND LOOP OR GROUND ROD METHODS.

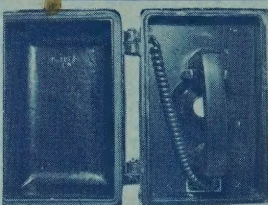
AM-558 AUDIO FREQ. AMP. IS A BATTERY POWERED HIGH GAIN AMPLIFIER WITH INPUT IMPEDANCES OF 20;150;600; 1000;2000;3500;5000; 500,000 ALSO DIRECT CONNECTION FOR BRIDGING USE AND ARE SELECTED BY THE SWITCH. OUTPUT IMPEDANCE 600 OHMS. FILTER IMPEDANCE SW. 200-8000 CYC. ALSO VOL. CONT. INPUT & OUTPUT TERM. HEADSET JACK. WITH TUBES 2/1U4 & 1/3Q4. BATTERY VOLTAGE REQUIRED 6 V. @ 50 MA. 90 V. @ 5 MA. AM-558 AMPLIFIER SIZE 8 1/2x10 1/2x1 1/2; WT: 20 LBS. COMPLETE SET WITH AM-558 AMPLIFIER, INDUCTION PICK UP H-113 HEADSET, CD-307 CORD, GROUND ROD 500 FT. WD-1/TT TELEPHONE WIRE & MANUAL. SHPG. WT: 50 LBS. PRICE: (LESS BATT) \$24.95

VOICE HYBRID



TA-31 VOICE FREQ. HYBRID. USED FOR MIXING AND BALANCING TWO LINES OF TELEPHONE COMMUNICATION BY THE USE OF LINE TRANSFORMERS, CAPACITANCES AND APPROPRIATE SWITCHING. CONTAINS ROTARY SWITCHES, 1 SEC. 4 POLE 2 POS., 1 SEC. 1 POLE 24 PS 1 SEC. 2 POLE 12 POS., 3 SEC. 6 POLE 11 POS. ALSO 33 BINDING POSTS, CONDENSERS, TRANS. ETC ALUMINUM CASE 13x9x6 W/4 HASP COVER, 15 LBS. PRICE: WITH SCHEMATIC USED \$6.95

OUTDOOR TELEPHONE



TA-105/FTC TELEPHONE WALL TYPE SELF CONTAINED, COMMON BATT. TYPE THAT CAN BE CONVERTED TO DIAL OPERATION BY THE ADDITION OF A DIAL. UNIT IS CONTAINED IN WATERPROOF CAST-IRON HOUSING AND IS INTENDED FOR USE OUTDOORS

AND IN AREAS OF HEAVY USAGE. SIZE: 12 1/2x9 1/2x8 1/2; WT: 35 LBS. \$12.95

CONTROL TRANS. TELETYPE



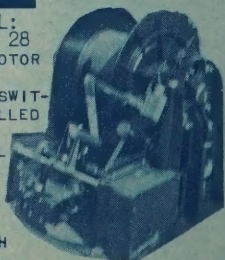
C-292/TRA-7 CONTROL TRANSMITTER AND TELETYPEWRITER; WHEN USED IN RADIOTELETYPE SYSTEM IT PROVIDES FACILITIES FOR ESTABLISHING FULL DUPLEX, ONE-WAY REVERSIBLE,

EMERGENCY CW, OR FREQUENCY-SHIFT TRANSMISSION OR RECEPTION. IT IS A REPEATER OF POLAR AND NEUTRAL RTTY SIG. AND CONVERTS POLAR SIG. REC FROM DUAL DEVERSTY CONVERTER INTO NEUTRAL TO OPER. A REC. TELETYPEWRITER. IT ALSO TRANSLATES NEUTRAL SIG. FROM A SENDING UNIT INTO POLAR SIG. FOR TRANS. OVER A WIRE LINE TO CONTROL A FREQ. SHIFT EXCITER. WITH 16 TUBES. POWER REQUIRED 115 VOLT 60 CYCLE.

SIZE: CHASSIS ONLY RACK MTG. 10 1/2x19x13. 60 LBS. PRICES: CHASSIS ONLY RACK MTG. USED \$19.95 WITH CABINET 21 1/2x12 1/2x17 1/2 (100LB) \$27.50 " " 19 1/2x10 1/2x13 1/2 (90LB) \$24.75

HOIST

RL-152B/AQS-4 CABLE REEL: CONSISTS OF A DRUM WITH 28 VOLT D.C 32 AMP DRIVE MOTOR AND ASSOCIATED GEARING, MOTOR CUTOFF AND LIMIT SWITCHES. THE MOTOR IS CONTROLLED THROUGH THE HOIST LOWER RELAY AND START-STOP RELAY. ELECTROMAGNETICALLY OPERATED BRAKE THAT CAN BE RELEASED FOR MANUAL OPERATION. THE DRUM IS 8" WIDE AND 9" DEEP WITH A LEVEL WIND MECHANISM. SIZE: 23 1/2x20 1/2x24; WT: 100 LBS. RE-COND \$75.00



DUAL
VARIABLE
22 TO 210
MMF .070
AIR GAP,
21 PLATES EA. SEC.
SIZE $5\frac{1}{2} \times 4\frac{1}{2} \times 3\frac{1}{2}$; SHAFT $1 \times \frac{1}{4}$
CARDWELL XT210PD 3D9210
\$5.95



VARIABLE
CAPACITOR
30 TO 950
MMF .030
AIR GAP,
1250 VOLT
41 PLATES
3 $\frac{1}{2}$ "x4x4,
SHAFT 1 $\frac{1}{2}$ "x. CARDWELL #XR-10
OOPS u/w BC-329 FSN#5910-
648-7631/3D9950V/3300-31468
9120 \$4.95

VARIABLE CAPACITOR 25-440
MMF.050 AIR GAP, 31 PLATES
1500 V. $4\frac{1}{2} \times 3\frac{1}{2} \times 4\frac{1}{2}$, SHAFT $\frac{1}{2} \times 1$
CARDWELL X0440PS/FSN#5910-
160-0987 3D9440V-1
\$4.95

TN-174
GRA-4
ANTENNA
TUNER
WITH
JOHNSON
VARIABLE
CAPACITOR

#154-1-4, 12 to 244 MMF.
2000 VOLT, 115 VOLT 1/25
WATT NE-51 NEON LAMP AND
2 CABLES FOR CONNECTING TO
TRANSMITTER 50" LONG.
SIZE: 3x4x5. WT: 4 LBS.
PRICE: \$3.95

DAVEN "T"
NETWORK
ATTENUATOR
600/600
50 DB/STEP
20 DB Tot.
TYPE 6225-4
SIZE 1 1/2 x 7/8
#5905-682-
0842
WT: 3oz
NEW \$2.50

DAVEN WE-178-1 BALANCE "H"
NETWORK, 600/600 2DB STEPS
60 DB TOTAL. SIZE $3\frac{3}{4} \times 2\frac{3}{4}$
6 oz. #5905-230-5160
NEW \$3.95

F47
R120
E40
902379 ✓

HYDROPHONE UNIT
MAGNETOSTRICT+
ION TYPE 20 KC
RESONANT FREQ.
THIS A STANDARD
SECTION OF A
COMPLETE ASSY.
AS USED IN AN/
SQS-10 SONAR.
SIZE: 3x5x1 1/2
WT: 3 LBS. #875446/Y901 \$5.95

WT: 3 LBS. #875446/Y901 \$5.95

**SIGNAL
LAMP**

**SIGNAL LAMP 13 VOLT 6.6 A
PISTOL GRIP, 9 FT. CORD,
WITH RED, ORANGE, PURPLE &
GREEN SNAP ON LENSES.
GRIMES K-2 SHPG. 5LB \$4.95**



ROTARY RELAY
28 VDC TAPPED
COIL, MOUNTED
ON PLATE, 3
WAFER SWITCHES
ONE END, TWO
ON OTHER, 5
MAKE/5 BREAK,
1 MAKE, FIVE
BREAK.
MTG. PLATE SIZE 2x3-2" DEEP
#K-10176 RE-NOV. \$1.50



ROTARY RELAY
 28VDC TAPPED
 COIL, 2 WAFER
 SWITCHES, 1
 BREAK/1 MAKE,
 3 BREAK, RE-MOV
 SIZE: 2 1/2" x 1 1/2" x 1 1/2" K-102/6 \$1.50



DELAY LINE, 100 OHMS, 0.5
MICROSECOND.
SIZE: 7x2x $\frac{3}{4}$; 4 Oz. USED
#4205 79¢ EA. 2 FOR \$1.50

ABBREVIATIONS: H.M.I. HAND-
BOOK OF MAINTANANCE INSTRU
CTIONS/O.I. OPERATING INSTRU
CTIONS/N.S. NO SCHEMATICS/
I.B. INSTRUCTION BOOK/W.S.
WITH SCHEMATICS.

ARC-27	ARC-55	0.1 / N.S.	\$3.00
ARC-44	1.B. / W.S.		\$10.00
ARC-60	1.B. / W.S.		8.50
ARN-12	1.B. / W.S.		5.00
ARN-30	0.1 / N.S.		3.00
ARN-59	0.1 / N.S.		3.00
FRC-27	TRC-34	1B / WS	8.50
w/R-394/T-416/PP-846			
PP-804 and C-845			
FRR-36	1.B. / W.S.		8.50
w/R-394/PP-846			
GRC-3-8	1.B. / W.S.		8.50
GRC-9	1.B. / W.S.		8.50
GRC-19	1.B. / W.S.		8.50
GRC-26	1.B. / W.S.		8.50
GRR-5	1.B. / W.S.		7.50
PRC-6	1.B. / W.S.		7.50
PRC-8-9-10	1.B. / W.S.		7.50
VRC-19	1.B. / W.S.		8.50
w/R-394/T-278/DY-93			
98 / 100 PP-859 / C			

RT-67-68-69	1.B./W.S.	\$5.00
RT-70	1.B./W.S.	5.00
R-108-109-110	" "	7.50
R-388	1.B./W.S.	10.00
R-390	1.B./W.S.	10.00
R-392	1.B./W.S.	10.00
R-394	1.B./W.S.	7.50
R-140	1.B./W.S.	7.50
R-257	1.B./W.S.	7.50
T-278	1.B./W.S.	7.50
T-368	1.B./W.S.	8.50
T-208-417	1.B./W.S.	8.50
DY-93-98-100	" "	3.00
ARC TYPE 12 RADIO SET		8.50
COVERS R-10-11-15-19		
T-11-13 & ACCESSORIES		
SIMILAR R-508-509-R-22		
AND OTHERS. H.M.1/W.S.		
CV-431/R-508	ARC-60	8.50
R-138/B-10A	ARN-30	8.50

MANY OTHER MANUALS IN STOCK
TELL US WHAT YOU NEED.
NO LIST AVAILABLE

CIRCUIT BOARD ASSORTMENT
WIRED TYPE SO THE PARTS
CAN BE REMOVED AND STILL
HAVE LEADS LONG ENOUGH
TO BE USED AGAIN.
HUNDREDS OF RESISTORS VARIOUS
WATTAGES, CONDENSERS
DIFFERENT TYPES, POTENTIOMETERS,
MINIATURES, STANDARDS
ALSO SWITCHES, COAX. CONN.
TRANSFORMERS, NOVATUBE
SOCKET (REVISED) MANY OTHER
ITEMS. WELL WORTH THE PRICE
#FRANZ CBA-203/20 LBS \$3.00

SOLID STATE D.C. INVERTER
INPUT: 6 VDC TO 12 VDC
OUTPUT: 150 VDC TO 200 VDC
DESIGNED FOR USE IN A AUTO-
MOTIVE TIMING LIGHT.
UNIT CONTAINS THE FOLLOWING
1-3 AMP. 30 VOLT DIODE
1-3 TO 5 AMP 50 PRV SCR
1-8 VOLT 1 WATT ZENER
2-20-73 BENDIX POWER TRANSISTOR
1-2N5172 TRANSISTOR
4-300 TO 500 PRV 500 MA DIODE
1-N.C THERMAL SWITCH
1-40 MFD 250 VDC MIN. EL CAP
1-47 " 25VDC MIN ELEC CAP
1-8 " " " "
4- ASST TYPE RESISTORS
1- FERRITE CORE TRANSFORMER
Size: 1x1x4 1/2; WT: 1 LB SH
GADGETEERS 6832 \$1.50

AMPS.	P.I.V.	w/MTG	
35	50	"	\$1.00
35	100	"	1.25
5	200-400	"	.75

PRI: 105 TO 125 v 50/60 CYC
SEC: 2/6.3 VCT @ 35 AMPS EA
SIZE: 7x6 $\frac{1}{2}$ x5 $\frac{1}{2}$; WT: 30 LBS.
SMITH #3002730 USED \$12.95

COMPUTER GRADE CAPACITORS			
OUT OF EQUIPMENT GUARANTEED			
MFD	VDC	SIZE	PRICE
900	165	2x4 RD	\$1.25
500	275	2x4 RD	1.25
350	330	2x4 RD	1.25
1400	99	2x4 RD	1.25

LOTS OF 6 \$1.00 EACH.

12000	11	2x4	RD	.75
10000	16.5	2x4	RD	.75
4000	33	2x4	RD	.75
3500	52.8	2x4	RD	.75

LOTS OF SIX 60¢ EACH

SIZE: 2 $\frac{1}{2}$ x5: 2 LBS. # D34905
PRICE: \$2.00 EA. 3 FOR \$5

MALLORY SPIRAL INDUCTANT
FOUR GANG TUNER .025 UF
TO .985 UF EA. SEC. FREQ.
RANGE 52 THRU 216 MC.
ACCURATE NOISE FREE OPERA-
TION, ELIMINATES USE OF
COILS AND SWITCHING DEVICES
DESIGNED FOR USE IN TV, FM
AND VHF RECEIVERS.
SIZE: 6x2x2, SHAFT 2x3/16
STK#5060 29-8717 82-05



RESET TIMER
TOTALIZER HOURS
115 VOLT 60 CYC
4 DIGIT & FRACTION
MANUAL RESET $3\frac{1}{2}$ " SQUARE
INDUSTRIAL #C-5 \$10.00

SODECO RESET COUNTER
4 FIGURE 0-9999 COIN
24 VDC 69 MA. 10 IMP
ULSES PER-SEC. ELECT
RIC RESET, MOUNTING
1-3/8x2-3/8 PLATE,
4 1/2" D. SHPG. WT: 1LB
TYPE TCE-F4E
PRICE: WEEFLEX \$8.95

PRICE, USED EX \$8.95
SODECO RESET COUNTER TCEZ4E
SAME AS ABOVE MECHANICAL
RESET FROM FRONT, FACE PLATE
1 3/8 x 1 1/2 USED EX \$5.95



ROENTGENS
PER HOUR METER
50 MICROAMPERE
D.C. FULL SCALE
3/4" RUGGEDIZED
REMOVABLE
PLASTIC LENSE,
BLACK FACE.

TOP SCALE 0-500, LOWER 0-10
#300-10764 UNUS \$3.95

0-100 SCALE, LEVEL SET, $3\frac{1}{2}''$
 FULL SCALE 100 MICROAMP.
 RUGGEDIZED #7808 NEW \$6.95

D.C. AMPERES 0-100 & 0-200
SCALE, 3 $\frac{1}{2}$ " FULL SCALE 50 MV.
RUGGEDIZED #5338 NEW \$6.95



0-50 A.C. AMPERES SCALE 2 1/2"
 FULL SCALE 47 MA. USED
 ROBERTS 423-74R \$3.95

0-140 A.C. VOLTS SCALE $2\frac{3}{4}''$
 FULL SCALE 1 MA. USED
 ROBERTS 422-4086 \$3.95

0-5 A.C. AMPERES SCALE 2½"
RUGGEDIZED, WESTON 1524
#0890-MR26W005ACAAR \$4.95



EDGE-WISE METER
0-100 D.C. MA.
FULL SCALE 20 MA
2 1/2 x 3 1/4 x 3/4 FACE
INTERNATIONAL 1135ULB \$5.95

POWERSTAT
VARIABLE
TRANSFORMER:
INPUT
115/230v
50/60 cy.

OUTPUT:
30v @ 25A
15/-0-15
35 AMPS.

MAX. KVA. 0.75 SIZE: 7x8x5
SHAFT $\frac{1}{2}$ " WT: 25 LBS.
POWERSTAT # LW136U USED \$25

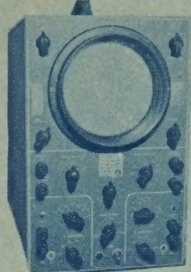
KNOB 4" DIA.
 WITH POINTER
 TAKES 11/16"
 SHAFT (NEEDS TO
 BE REDUCED TO
 FIT ABOVE UNIT)
 #KNOB-35 \$1.50



v 60 CYC
 v 400MA
 ER TAP
 2950
 30 LBS.
 \$12.95

PRI: 120 v 60 CYC
 SEC: 400 v 650 MA
 NO CENTER TAP
 5 $\frac{1}{2}$ x5x4 $\frac{1}{2}$: 20 LBS.
 #051-4501 \$6.95

OSCILLOSCOPES



DUMONT 304 OSCILLOSCOPE IS A GENERAL-PURPOSE PIECE OF EQUIPMENT THAT ENABLES RAPID, ACCURATE AMPLITUDE MEASUREMENTS OF ANY PORTION OF A 0- TO 1000- VOLT SIGNAL FROM DC TO OVER 50,000 CPS. THE HIGH GAIN ASSURES THAT IT CAN BE USED DIRECTLY WITH MOST TRANSDUCERS, WHILE D-C AMPL. PROVIDES THAT THE LOWEST FREQ. PORTIONS OF SIGNALS WILL BE REPRODUCED. THE AMPLITUDE CAL. SYS. PERMITS SIG. AMPL. IN VOLTS DIRECTLY FROM THE SCREEN.

A 5ADP CR TUBE IS USED WITH SECOND ANODE 1600 INTENSIFIER 3000 VOLTS. THE SWEEP CIRCUIT MAY BE ADJUSTED FROM FRONT PANEL FOR OBSERVING RANDOM PHENOMENA OR RECURRENT PULSES HAVING LOW DUTY CYCLES. TO OBTAIN SWEEPS OF EXTREMELY LONG DURATION, PROVISIONS ARE MADE FOR ATTACHING EXTERNAL CAPACITANCES. WITH TUBES 5ADP, 6/12AU7, 2/6AG5, 1/6AQ5, 1/0B2, 2/6J6, 1/5Y3G, 1/3-14, 2/1X2A, 2/6AL5 AND 2/5963.

POWER REQUIRED 115/230 VOLT 50-400 CPS.

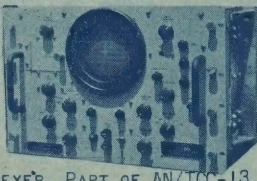
SIZE: 9Wx13Hx19D; WT: 65 LBS.

PRICES: USED SERVICEABLE \$50.00 CHECKED \$65.00

OSCILLOSCOPE

OS-25/G OSCILLOSCOPE

TRIGGERED SWEEP 5 MICROSECOND TO .05 SECOND CONTINUOUS, 5 MICROSECOND TIMING PIP CONTROLS, CALIBRATION; ONE VOLT PEAK TO PEAK ADJUSTABLE, SYNC. MULTIPLEXER AND DE-MULTIPLEXER. PART OF AN/TCC-13 MULTIPLEX TEST SET. WITH 5CP1 CATHODE RAY 5" TUBE PLUS 30 OTHER TUBES: 2/5R4, 2/2X2, 1/6AS7, 9/6AG7, 3/6AL5, 2/6AU6, 4/12AT7, 2/6AQ5, 2/6AG5, 1/0A2 AND 2/6X4. POWER REQ. 115 VOLT 60 CYC. SIZE: RACK MTG 19x12Hx20D; WT: 85 SHPG. PRICE: USED SERVICEABLE \$49.95 CHECKED \$65



AUDIO TEST SET

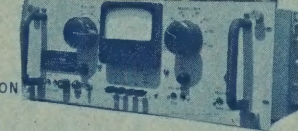
TS-762 AUDIO TEST SET

USED WITH THE TCC-13 MICROWAVE MULTIPLEXER RADIO RELAY NETWORK.

MEASURES DISTORTION @ 1000 CYCLES AND FIA @ 1000 CYCLES

METER READS DB -20 TO +3, 600 OHM INPUT AND OUTPUT JACKS WITH ATTENUATORS FOR RECEIVE DBM +10 TO -60 AND SEND +10 TO -35 ALSO MONITORING JACKS, PUSH BUTTON SWITCHES FOR SEND, RECEIVE, DISTORTION AND FIA METER READINGS. WITH TUBES 1/5R4, 1/0A2, 5/12AT7 AND 2/6AG5. POWER REQ. 115 VOLT 60 CYCLE. RACK MOUNTING 19x7x14; WT: 30 LBS.

PRICE: USED SERVICEABLE EXCELLENT \$39.95



ULTRASONIC

REMOTE CONTROL

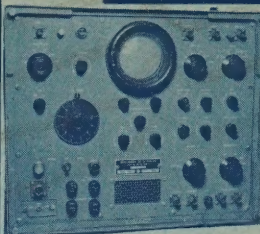
ULTRASONIC REMOTE CONTROL SET**TRANSISTORIZED USED AS TV CHANNEL SELECTOR, ON/OFF/VOLUME CONTROL. THE BATTERY OPERATED HAND HELD TRANSMITTER OPERATES ON 41.5 KC FOR THE CHANNEL SELECTOR AND 38 KC FOR THE ON/OFF/VOL. CONT. WHICH ARE CONTROLLED BY THE SWITCHES ON THE UNIT. THE PRESSING OF THE CHANNEL SELECTOR SWITCH TRANSMITS THE 41.5 KC SIGNAL WHICH IS PICKED UP BY THE RECEIVER SUPPLIED WITH THIS UNIT WHICH IN TURN ACTUATES THE MOTOR, WHICH IS ALSO SUPPLIED, THAT HAS 13 POSITIONS THAT RESPONDS TO EACH IMPULSE OF THE TRANSMITTER. THE ON/OFF/VOLUME SWITCH TRANSMITS A 38 KC SIGNAL THAT IS PICKED UP BY THE RECEIVER AND ACTUATES A FOUR POSITION SWITCH.

THE ULTRASONIC RECEIVER AND MOTOR OPERATE FROM 115 VOLT 60 CYCLE AND THE TRANSMITTER REQUIRES 2 DRY CELL BATTERIES NO. 6415. THE TRANSMITTER CAN BE USED EFFECTIVELY UP TO 50 FEET AND THE ENTIRE SYSTEM HAS MANY USES WHICH YOU CAN PUT IT TO WORK FOR.

#7780 REMOTE CONTROL ACCESSORY UNIT COMPLETE WITH TRANS. REC. MOTOR CABLES, HARDWARE, INSTRUCTIONS, SCHEMATICS ETC. SHPG WT: 8 LBS.

PRICE: USED BOXED \$18.95

OSCILLOSCOPES



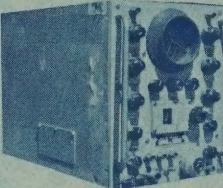
USM-24 OSCILLOSCOPE WITH 3UP1 C.R. TUBE. SINE WAVE RESPONSE, FLAT WITHIN -30DB FROM 2 CYC TO 8 MC. TRANSIENTS RESPONSE .04 MIC ROSEC. RISE, POLARITY POSITIVE UPWARD AND NEGATIVE DOWNWARD DEFLECTION, RECURRENT SWEEP 80CYC PER. SEC. TO 600 KC., TRIGGERED

SWEEP 1.25 TO 125 MICRSEC., VERT. DEFL. SENSITIVITY .035, HORIZ. DEFLEC. 4.0V, HORIZ. RESPONSE .5 CYC PER SEC. TO 700 KC. VERT. RESPONSE 4 CYC PS. TO 10 MC. BEAM MOD. RESPONSE 50, CYC PS. TO 10 MC, HORIZ. INPUT IMP. 300,000 OHMS, BEAM MOD. INPUT RESISTANCE. 56,000 OHMS SIGNAL AMPLIFICATION IS UNIFORM OVER A WIDE FREQ. RANGE. A CALIBRATING GENERATOR FOR ACCURATE MEASURE. OF INSTANT. VALUES OF SIGNAL, WITH CHOICE OF 5 TIME MARKERS. ALL OPERATING CONTROLS AND CONN. ARE ON THE FRONT PANEL. INPUT AND OUTPUT CONNECTIONS USE BCN CONNECTORS. POWER REQUIRED 115 VOLT 50 TO 1600 CYC. SIZE: 15x17x16; WT: 55 LBS. SHPG. WT: 65 LBS. PRICES: OS-26/USM-24 CONVERTED BY GOV'T TO

PRICES: OS-26/USM-24 USED SERVICEABLE LESS PROBES AND ADAPTERS....\$65.00 SAME AS ABOVE CHECKED, OPER. \$85.00

THREE TEST LEADS PROBES ARE NORMALLY USED WITH THE UNIT BUT AS WE DID NOT RECEIVE ALL THE PROBES WE ARE OFFERING THEM AND TEST ADAPTERS SEPARATELY

PROBES CG883/USM-24 (2) CG944/AP EACH \$5.00 ADAPTERS UG924, UG255, UG274, UG273 EACH 1.00



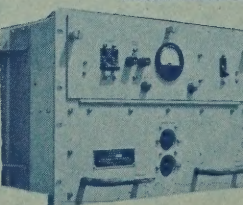
OS-4/USM-25 OSCILLOSCOPE GENERAL PURPOSE UNIT DESIGNED TO PORTRAY A LUMINOUS PLOT OF VOLTAGE AGAINST A TIME BASE. SERVES AS A AUX. RANGING UNIT, PRECISION TEST OSCILLOSCOPE AND CALIBRATOR CAN BE USED WITH RADAR SYSTEMS TO INCREASE THE

ACC. IN RANGING, EXTEND THE RANGE SCALE AND PROVIDE ACC. CRYSTAL CONTROL MARKERS ALSO EXPANDED, DELAYED OR UNDELAYED SWEEPS. VIDEO AMP. SENS. MIN. .5 V PK-PK W/CRY. PROBE 5.0 V. DIR. TO VERT. DEF. 43 TO 52 VOLTS. FREQ. RESPONSE AMPL. 1 DB 50 CPS AND 5 MCPS PULSE RESPONSE RISE TIME LESS THAN .1 MICRSEC. DELAY TIME, LESS THAN .2 MICROSEC., INPUT IMPEDANCE AMPL. 1 MEGOHM, SYNCHRONIZING CRYSTAL CONTROL MARKERS 10 MICROSEC. AND 50 MICRO SEC. INTERNAL IMP. 56 OHMS., SIGNAL DELAY TIME .60 SEC. WITH TUBES 3UP1 CR AND 22 OTHER TUBES. POWER REQ. 115 V. 50 TO 1000 CYCLES. SIZE: 11x17x9; WT: 40 LBS. PRICE: USED SERVICEABLE \$42.50 CHECKED \$57.50



OS-8 OSCILLOSCOPE WITH 3RP1 C.R. TUBE. PORTABLE GENERAL PURPOSE TEST SET DESIGNED TO DISPLAY, METER AND PLOT THE CHARACTERISTICS OF A VARYING ELECTRICAL POTENTIALS. FREQ. RANGE: VERTICAL AMP. 0-1000 CYC DC INPUT, 30 CYC TO 2 MC AC IN. HORIZ. AMP. 0 TO 1000 CYC DC INPUT, 25 TO 100M CYC AC INPUT, SWEEP CIR OSC. 3 TO 50M CYC. INPUT IMP. AC 1.5 MEGOHM, DC 2.0 MEGOHM, HORIZ. AMP. 1 MEGOHM, DEF. SENSITIVITY VERT. 0.1 V. RMS HOR. 0.1 V RMS FOR 1 IN. PK TO PK. VERT. DIR. DEF. 48 V PER IN. HORIZ. DIR. DEF. 67 V. PER IN. POWER REQUIRED, 104 TO 126 VOLTS 50-1000 CYCL SIZE: 9x6x15; WT: 20 LBS. PRICE: USED SERVICEABLE \$45.00 CHECKED \$55.00

POWER SUPPLY



PP-691/G POWER SUPPLY USED WITH THE TCC-13 MULTIPLEXER SYSTEM, OUTPUT 250 VDC @ 1.5 A AND 115 VAC @ 5 A. TRANSFORMER HAS 34 VOLT WINDING THAT IS NOT USED, METER 2 1/2" 0-150 VOLTS AC, CIRCUIT BREAKERS AND FUSED CIRCUIT. RACK PANEL MTS. 19x12x19; WT: 125 LBS.

PRICE: USED SERVICEABLE EXCELLENT \$19.50

LORAN TEST SET



TS-251 LORAN TEST SET PORTABLE SIGNAL GENERATOR USED IN PRE-FLIGHT AND SHIPBOARD CHECKING OF LONG RANGE LORAN RECEIVERS. FREQUENCY RANGE 1700 TO 2010 KC PULSE SIGNAL. WITH TUBE 6J5, 6SJ7, 6SK7, 6SL7, 6X5 AND 6SN7. POWER REQ. 80/115/230 V. 50-1600CY SIZE: 7x11x10; WT: 30 LBS. PRICE: USED SERVICEABLE \$50.00 CHECKED \$60.

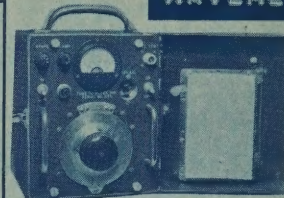
DIODE CRYSTAL CHECKER



390A-3 TEST SET CRYSTAL CHECKER

FOR CERAMIC CARTRIDGE AND COAXIAL TYPES WITH NORMAL AND REVERSED POLARITIES. MINIMUM CONVERSION LOSS CAN BE PREDICTED FROM THE STATIC VOLTAGE CURRENT CURVE OF THE CRYSTAL, THEREFORE A TWO POINT DC MEASUREMENT OF VOLTAGES IS MADE OF THE CRYSTAL UNDER TEST AND THE RESULTANT DIFFERENCE IN CURRENT CALIBRATED IN MINIMUM AVAIL. CONVERSION LOSS. IN THE CALIBRATE POS. AND VARYING CONTROL ESTABLISHES THE VOLTAGE CURRENT CURVE, IN THE TEST POS. SHOWS THE INDICATED CURRENT ON THE CALIBRATED METER AS A FUNCTION OF THE MINIMUM AVAIL. CONVERSION LOSS. POWER SUPPLY ONE 1.5 VOLT BATTERY. SIZE: 8x8x5; WT: 5 LBS. PRICE: USED \$9.95

WAVEMETER



TS-247/APM-48 WAVE METER IS A PORTABLE FREQUENCY METER OF THE ABSORPTION TYPE (CAVITY TUNED) DESIGNED TO MEASURE THE FREQ. OF RADAR TRANSMITTERS AND SIGNAL GENERATORS IN THE 215 TO 275

MC. RANGE. VERNIER DIAL SETTINGS ARE REFERRED TO A CALIBRATED CHART FOR FREQUENCY DETERMINATION AND RESONANCE IS INDICATED BY A SHARP DIP IN THE READING OF THE MICROAMPMETER. INPUT IMPEDANCE 50 OHMS, SENSITIVITY 2 VOLTS PEAKFOR 20% METER DEFLECTION ON CW OPERATION. ACCURACY .2% (ABSOLUTE) SIZE: 9x13x8; WT: 20 LBS. SHPG. 25 LBS. PRICE: USED SERVICEABLE \$40.00

REPEATER TEST SET



TS-712/TCC-11 TELEPHONE TEST SET. IS A BATTERY-OPERATED PORTABLE UNIT WITH FACILITIES FOR MAKING TEST OF REPEATER TCC-11 AND ALSO RINGING 1600 CPS. THE 1600 CPS IS BY TRANSISTOR OSC. CIRCUIT USING

ONE 2N21. THE AMPLIFIER CIRCUIT USES 2/1U5 TUBES. BATTERY VOLTAGE REQ. 1.5 V. & 90 V. HAS 3 1/2" RUGGEDIZED DB METER -12 TO +8 BASIC 100 MICROAMP. SELECTOR SW. 8 POS. 2EA. 3 POS. BINDING POSTS FOR CONN. EXTERNAL TELEPHONE. HOUSED IN ALUMINUM CASE W/HASP COVER (6). SIZE: 7x9x13; WT: 19 LBS.

PRICE: LESS AMPHENOL PLUG #164-202-5P \$ 9.95 WITH " " " " " " \$12.95

TIME MARK GENERATOR



TEKTRONIC 180-S2 TIME MARK GENERATOR DESIGNED TO PROVIDE ACCURATE TIME MARKERS WHICH CAN BE DISPLAYED ON A OSCILLOSCOPE FOR CALIBRATING SWEEP SPEEDS AND FOR COMPARISON OF TIME MEASUREMENTS. MICROSEC. MARKERS AT INTERVALS OF 1, 5, 10, 50, 100 AND 500 MILLISEC. MARKERS AT INTERVALS OF 2.5, 5, 10, 50, 100 AND 500 ALSO A 1 SECOND MARKER. SINE WAVES OF 5 MC, 10 MC, 50 MC. THE MARKERS ARE AVAILABLE INDIVIDUALLY OR ALL AT ONE TIME. POWER REQUIRED 115 VOLT 60 CYCLE. USED SIZE: 10x16x14; WT: 50 LBS. SERVICEABLE \$60